

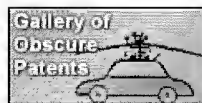
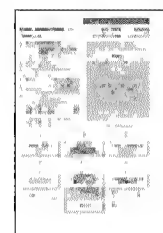
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IKEDA AKIO;  
KANEKO TERUO;**Assignee:** SUMITOMO METAL IND LTD  
[News, Profiles, Stocks and More about this company](#)**Published / Filed:** 1988-09-27 / 1987-03-20**Application Number:** JP1987000067024**IPC Code:** Advanced: [C22C 38/00](#); [C22C 38/14](#); [C22C 38/38](#);  
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IPC-7: [C22C 38/00](#); [C22C 38/14](#); [C22C 38/38](#);**Priority Number:** 1987-03-20 JP1987000067024**Abstract:** PURPOSE: To develop a high-strength low-alloy steel for oil well excellent in corrosion resistance, particularly in resistance to sulfide stress corrosion cracking, by using, as a steel stock for oil well, a steel stock having a composition in which Ti and Zr for improving corrosion resistance are added and AlN content is minimal.CONSTITUTION: As a steel stock for oil well pipe and oil transport pipe used in the development of oil well and gas field, a low-alloy steel which has a composition containing, by weight, 0.15W0.45% C, 0.10W1.0% Si, 0.3W1.8% Mn, <0.010% sol. Al, N in an amount satisfying  $N < [0.0020 + (Ti\% + Zr\%/8)]\%$ , and <0.0050% AlN and further containing 0.005W0.10% Ti and/or 0.010W0.20% Zr or further containing one or more kinds among 0.05W2.00% Cr, 0.02W0.80% Mo, 0.005W0.20% Nb, 0.005W0.20% V, and 0.0001W0.0030% B is used. In this way, the low-alloy steel excellent in strength and corrosion resistance and having superior characteristics as a stock for oil well pipe, etc., can be obtained.

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